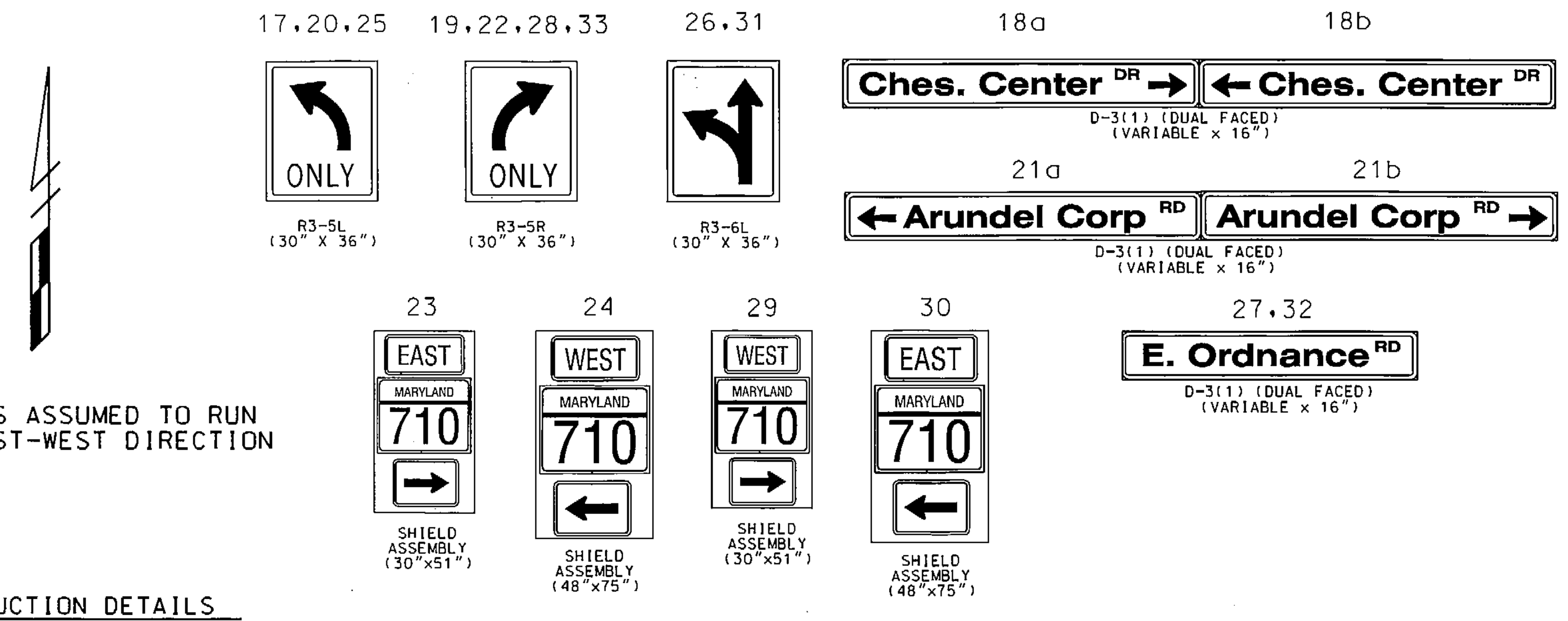
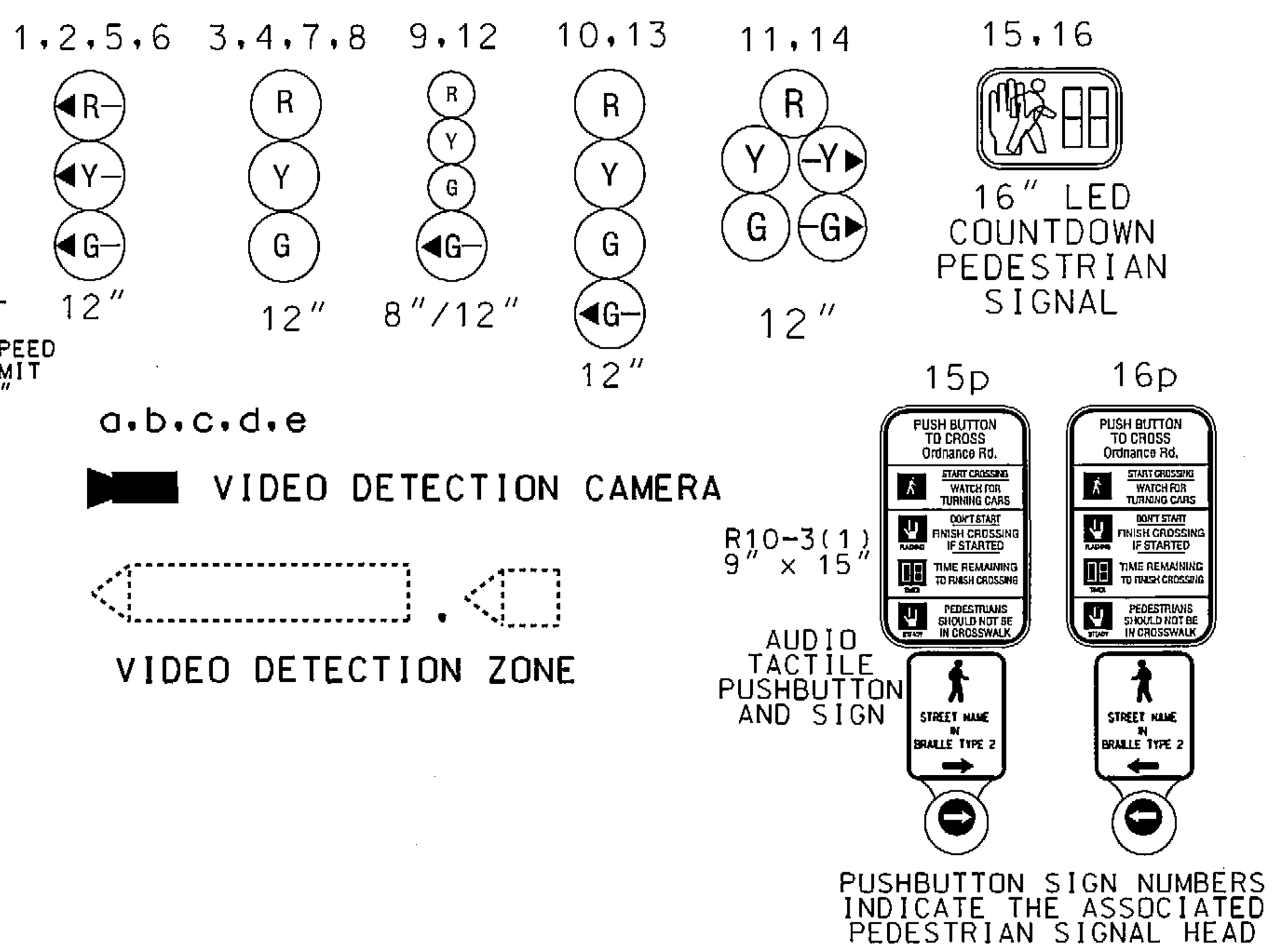
PROPOSED SIGNS

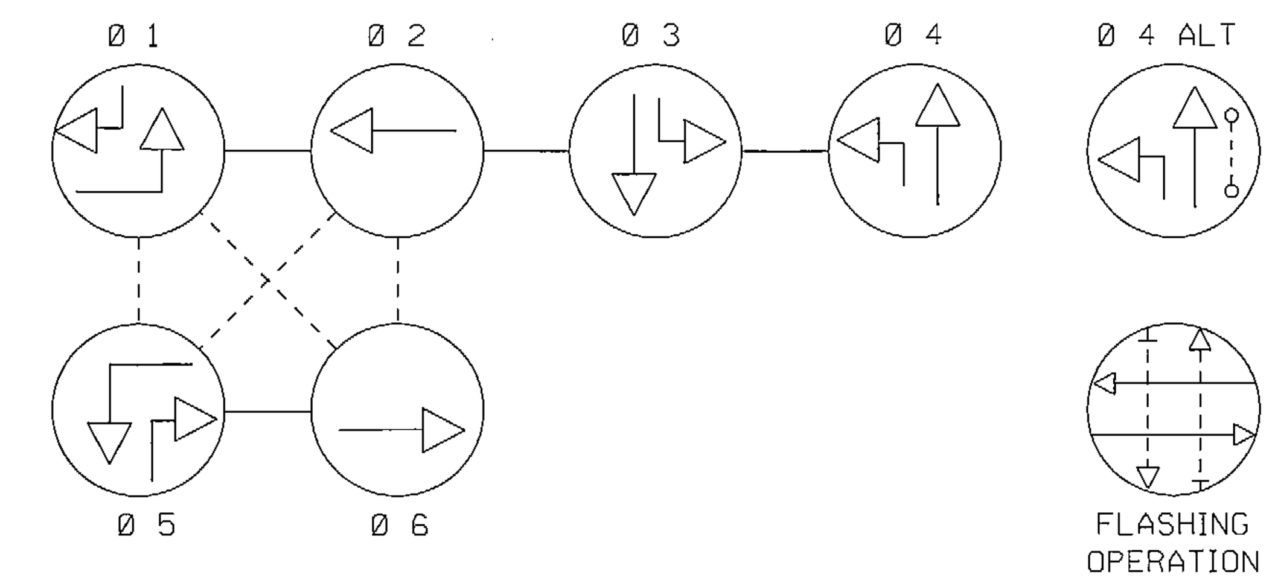


MD 710 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION

PROPOSED SIGNAL HEADS



NEMA PHASING



PHASING NOTES:

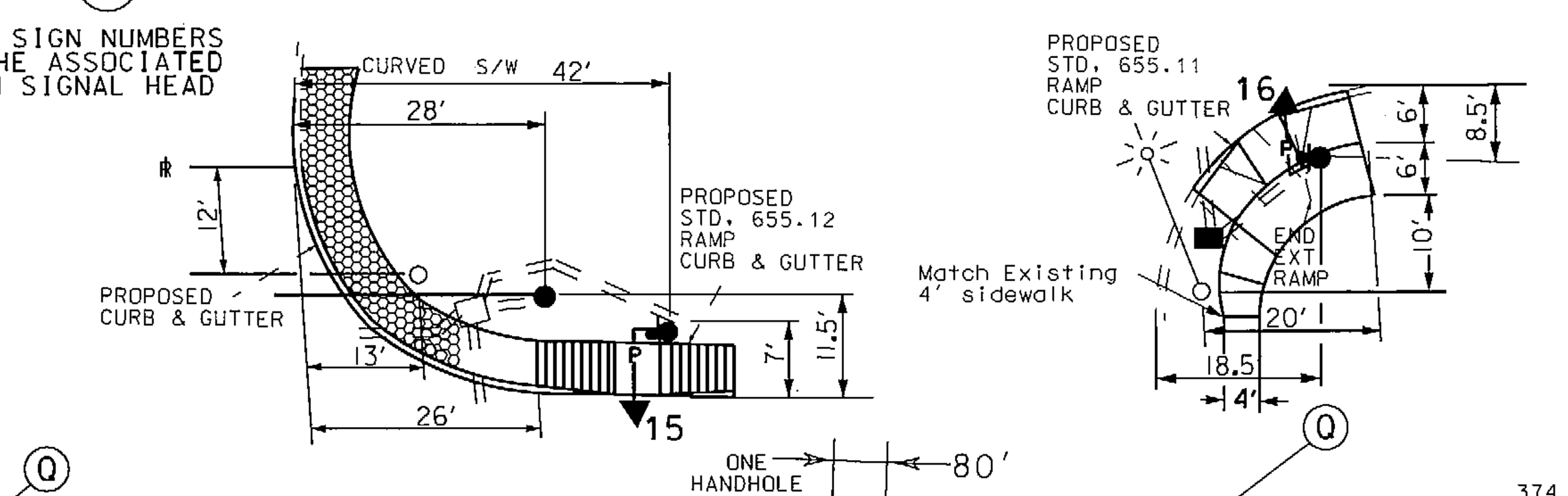
1. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
2. PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.

CONSTRUCTION DETAILS

A. INSTALL 27' STEEL POLE WITH 50' MAST ARM, LED TRAFFIC SIGNAL HEADS,VIDEO DETECTION CAMERA, SIGNS, 15' LIGHTING ARM WITH 250 WATT HPS LUMINAIRE.(NOTE: 1-3" 90° PVC BEND).

B. INSTALL 27' STEEL POLE WITH 50' MAST ARM, LED TRAFFIC SIGNAL HEADS,VIDEO DETECTION CAMERA, SIGNS, LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, AUDIO PUSHBUTTON AND SIGNS, AND 15' LIGHTING ARM WITH 250 WATT HPS LUMINAIRE. (NOTE: 1-3" 90° PVC BEND). (NOTE: FOUNDATION SHALL BE FLUSH WITH LEVEL LANDING AREA OF RAMP).

C. INSTALL 10' PEDESTAL WITH BREAKAWAY BASE, LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, AUDIO PUSHBUTTON AND SIGNS. (NOTE: 1-3" 90° PVC BEND).



CONSTRUCTION DETAILS conts.

D. INSTALL 27' STEEL POLE WITH 50' MAST ARM, LED TRAFFIC SIGNAL HEADS, VIDEO DETECTOR CAMERA, AND SIGNS. (NOTE: 1-3" 90° PVC BEND).

E. INSTALL 27' STEEL POLE WITH 38' MAST ARM, LED TRAFFIC SIGNAL HEADS, VIDEO DETECTOR CAMERA, AND SIGNS. (NOTE: 1-3" 90° PVC BEND).

F. REMOVE EXISTING CONTROLLER/ CABINET AND OVERHEAD SERVICE FEED.

G. USE EXISTING PROBES AND PULL BACK CABLES TO THE NECESSARY HANDHOLE. SO THE CABLES CAN BE REROUTED TO NEW CONTROLLER.

H. INSTALL 2" SCHEDULE 80 RIGID PVC CONDUIT- TRENCHED.

J. INSTALL 4" SCHEDULE 80 RIGID PVC CONDUIT- SLOTTED.

K. INSTALL 4" SCHEDULE 80 RIGID PVC CONDUIT- TRENCHED.

L. INSTALL HANDHOLE INTO EXISTING CONDUIT. EXTREME CARE SHALL BE USED TO PULL-BACK THE INTERCONNECT AND PROBE CABLES AND RE- ROUTE.

M. INSTALL 3" SCHEDULE 80 RIGID PVC CONDUIT- TRENCHED.

N. REMOVE EXISTING RAMP INSTALL STANDARD 655.11 RAMP. REMOVE AND INSTALL 5" CONCRETE SIDEWALK WITH 2'x 5' DETECTABLE WARNING SURFACE (STD. 655.40) AT THE ROAD EDGE RAMP OPENING.

O. REMOVE DECORATIVE BRICK, RE- INSTALL AS SIDEWALK AT NEW CURB GRADE.

P. REMOVE EXISTING POLE, ALL ATTACHED EQUIPMENT AND FOUNDATION 12" BELOW GROUND GRADE. CAP AND ABANDON EXISTING CONDUIT.

Q. USE EXISTING CONDUIT.

R. USE EXISTING HANDHOLE.

S. DISCONNECT THE INTERCONNECT CABLE AND PULL-BACK TO STORE IN HANDHOLE, PRIOR TO BEING RE-ROUTED TO NEW CONTROLLER.

T. USE EXISTING HANDHOLE, REPLACE FRAME AND COVER AND REPAIR THE WALLS AS DIRECTED BY FIELD ENGINEER.

U. USE EXISTING HANDHOLE, RAISE TO SURROUNDING GRADE.

V. REMOVE EXISTING CROSSWALK PAVEMENT MARKINGS NOT SHOWN ON THE PLAN AND INSTALL PROPOSED WHITE 12" PAVEMENT MARKINGS AS INDICATED.

W. INSTALL 100AMP METERED SERVICE PEDESTAL WITH 4" SCHEDULE 80 RIGID PVC CONDUIT- TRENCHED TO THE BASE OF UTILITY POLE NO. 507962, PROVIDING 1' STUB AND PULL STRING FOR BG&E TO SUPPLY SERVICE.

X. INSTALL NEMA CONTROLLER, ALL NECESSARY EQUIPMENT AND SIZE '6' BASE-MOUNTED CABINET.

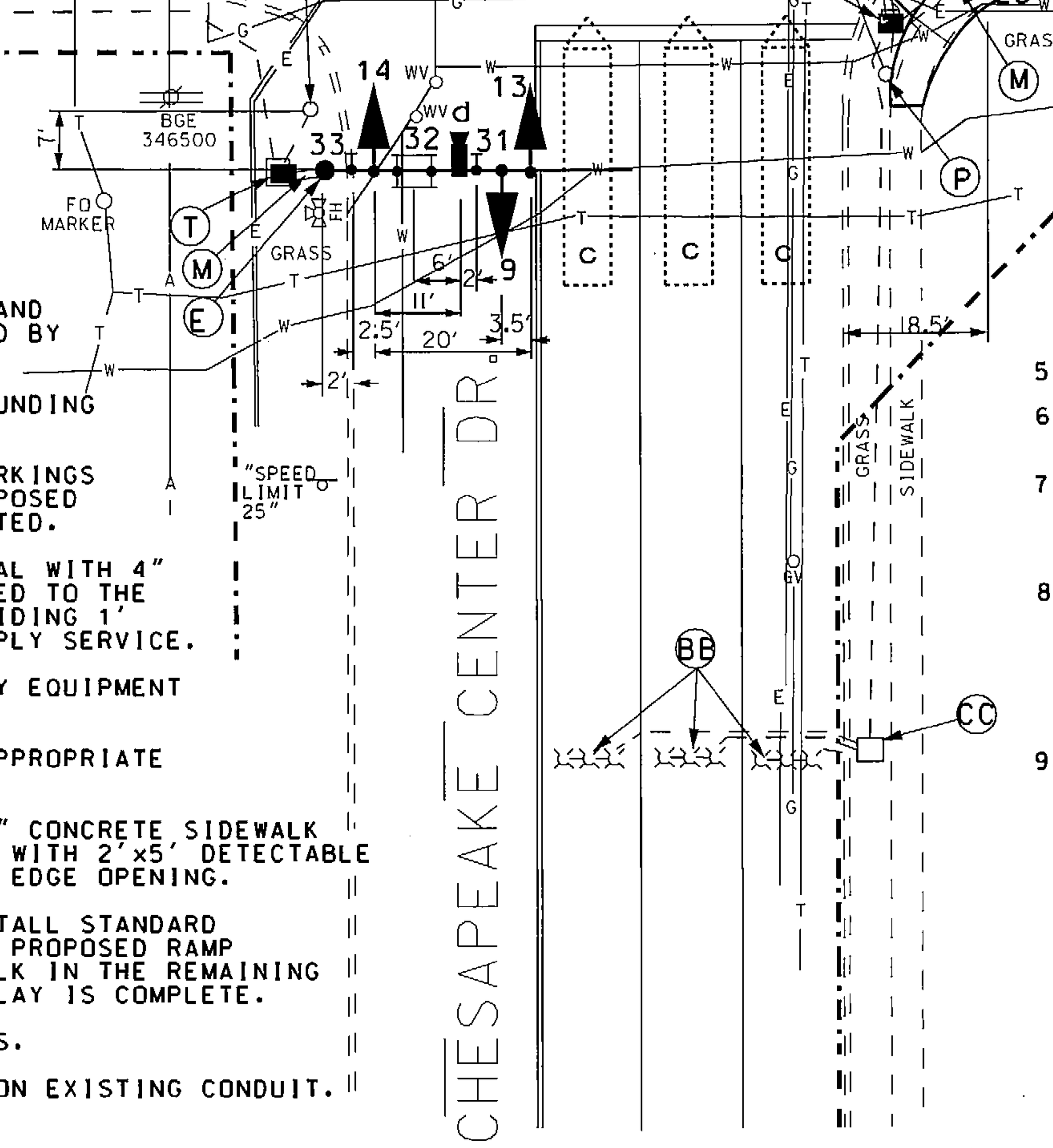
Y. REMOVE EXISTING HANDHOLE. FILL WITH APPROPRIATE MATERIAL TO MATCH THE ROADWAY.

Z. REMOVE SURFACE MATERIAL AND INSTALL 5" CONCRETE SIDEWALK AND A STANDARD 655.12 PEDESTRIAN RAMP WITH 2'x5' DETECTABLE WARNING SURFACE (STD. 655.40) AT ROAD EDGE OPENING.

AA. REMOVE EXISTING CURB AND GUTTER. INSTALL STANDARD TYPE A CURB AND GUTTER FROM RADIUS TO PROPOSED RAMP LOCATION. INSTALL 5" CONCRETE SIDEWALK IN THE REMAINING AREA, AFTER THE DECORATIVE BRICK DISPLAY IS COMPLETE.

BB. DISCONNECT AND ABANDON EXISTING PROBES.

CC. REMOVE EXISTING HANDHOLE, CAP & ABANDON EXISTING CONDUIT.



GENERAL NOTES

1. VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
2. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
3. ALL PAVEMENT MARKINGS DETAILED ARE TO BE INSTALLED IN ACCORDANCE WITH MSHA STANDARDS
4. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE NEW SIGNAL.
5. ALL PROPOSED LUMINAIRES SHALL BE SUPPLIED WITH A PHOTOCELL.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO APPROPRIATE TERMINAL AND PROPERLY LABEL EACH CABLE.
7. THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITIY CONFLICTS SHOULD ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
8. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS, TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
9. PUSHBUTTON ARROWS ARE TO BE PARALLEL TO THE CROSSING FOR WHICH THEY ARE INTENDED.
10. PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR REACHING LESS THEN 18 INCHES FROM A 60" x 60" LEVEL LANDING AREA WITH A CROSS SLOPE OF LESS THEN OR EQUAL TO 2%.
11. LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTON MUST MEET LOCATION REQUIREMENTS OF MUTCD SEC. 4E.09 AND FIG. 4E.2 AND THE NCHRP PUBLICATION, "ACCESSIBLE PEDESTRIAN SIGNALS: GUIDE TO BEST PRACTICE". IF NOT MET, THE CONTRACTOR IS TO STOP WORK ON PUSHBUTTON LOCATIONS UNTIL A DESIGN WAIVER IS OBTAINED, APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.

CENTURY ENGINEERING
CONSULTING ENGINEERS - PLANNERS
10710 GILROY ROAD
HUNT VALLEY, MD 21031

Revision "G" CEI # 26265J5

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

AERIAL CABLE	A
ELECTRICAL	E
TELEPHONE	T
GAS	G
SEWER	SS
STORM DRAIN	SD
WATER	W
CABLE TV	TV

APPROVALS	
TEAM LEADER	ORIGINAL ON FILE
ASST. DIV. CHIEF	
DIVISION CHIEF	
OFFICE DIRECTOR	

REVISIONS

G — Reconstruct to mast arm SHA # AA2615168 TIMS# J661 — June 1, 2009 — EMM/MAR

F — Add right turn overlap for side roads/operate w/left turns SHA # 012007 TIMS # H776 — 2/2007 — WS, DBD, MAR, WH, WH/TH

E — ADD VIDEO DETECTION SHA NO. AT7245185 TIMS # G039 — 3/14/06 — SRB/JWR, NML/JWR, FCB, JAH, MAR, WH/TH

PLOTTED: $DATETIME$
FILE: $FILE$

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 710 (ORDNANCE RD.) AND CHESAPEAKE CTR. DR./ARUNDEL CORP. RD.

TRAFFIC SIGNALIZATION PLAN

SCALE 1" = 20' ADVERTISED DATE 7-31-91 CONTRACT NO. BW415-802-502

DESIGNED BY	M.A.M.	COUNTY	ANNE ARUNDEL
DRAWN BY	M.A.M.	LOGMILE	02071000.25
CHECKED BY	JAH 7/1/09	TIMS NO.	J661
F.A.P. NO.		TOD NO.	

TS NO. 3170G DRAWING 1 OF 2 SHEET NO. 20 OF 31

BORDER REV. DATE: March 12 2008 07

BY: $USERNAME$

DRILL HOLES